

FIGURE 1



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Fig.2

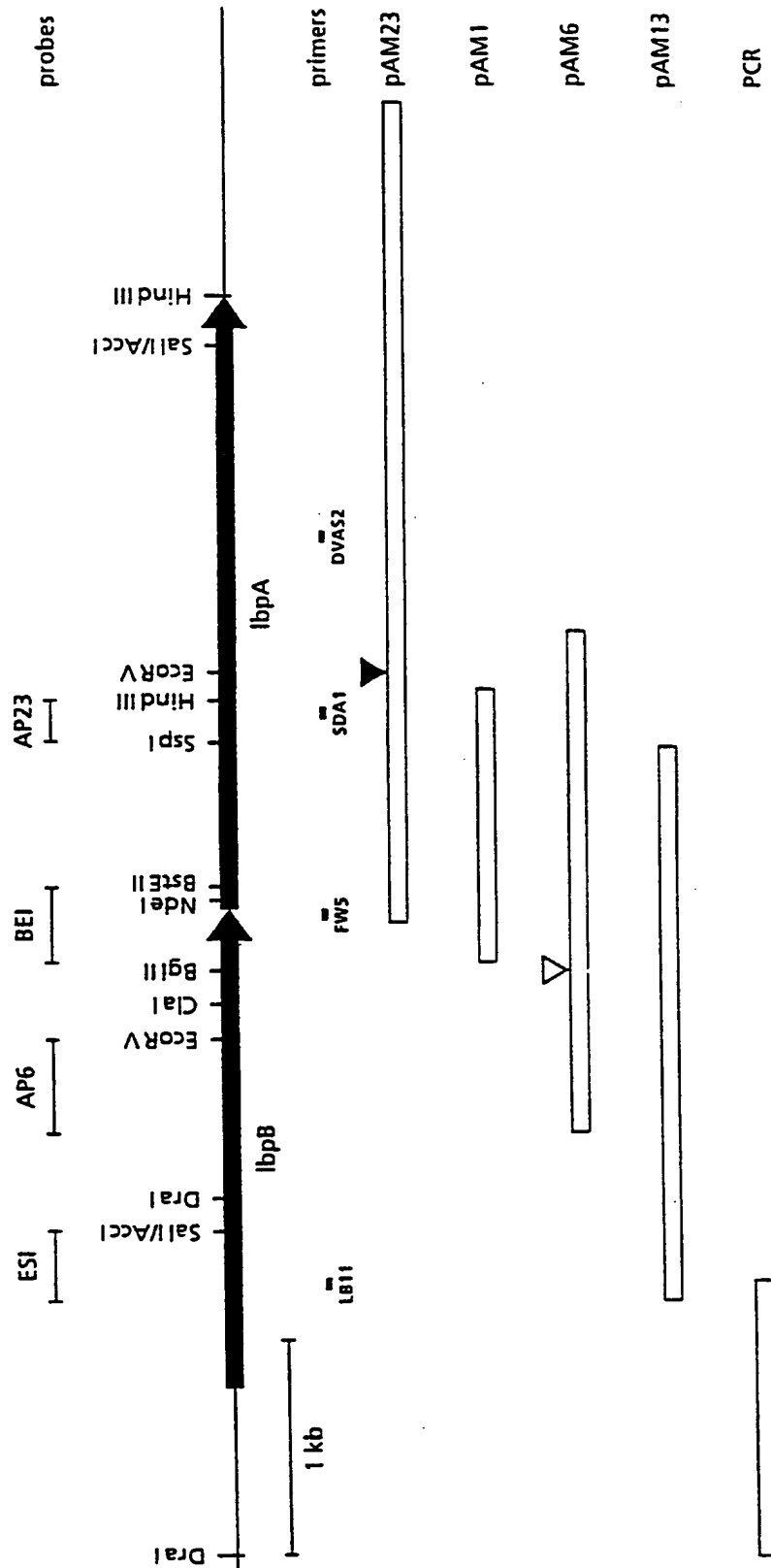
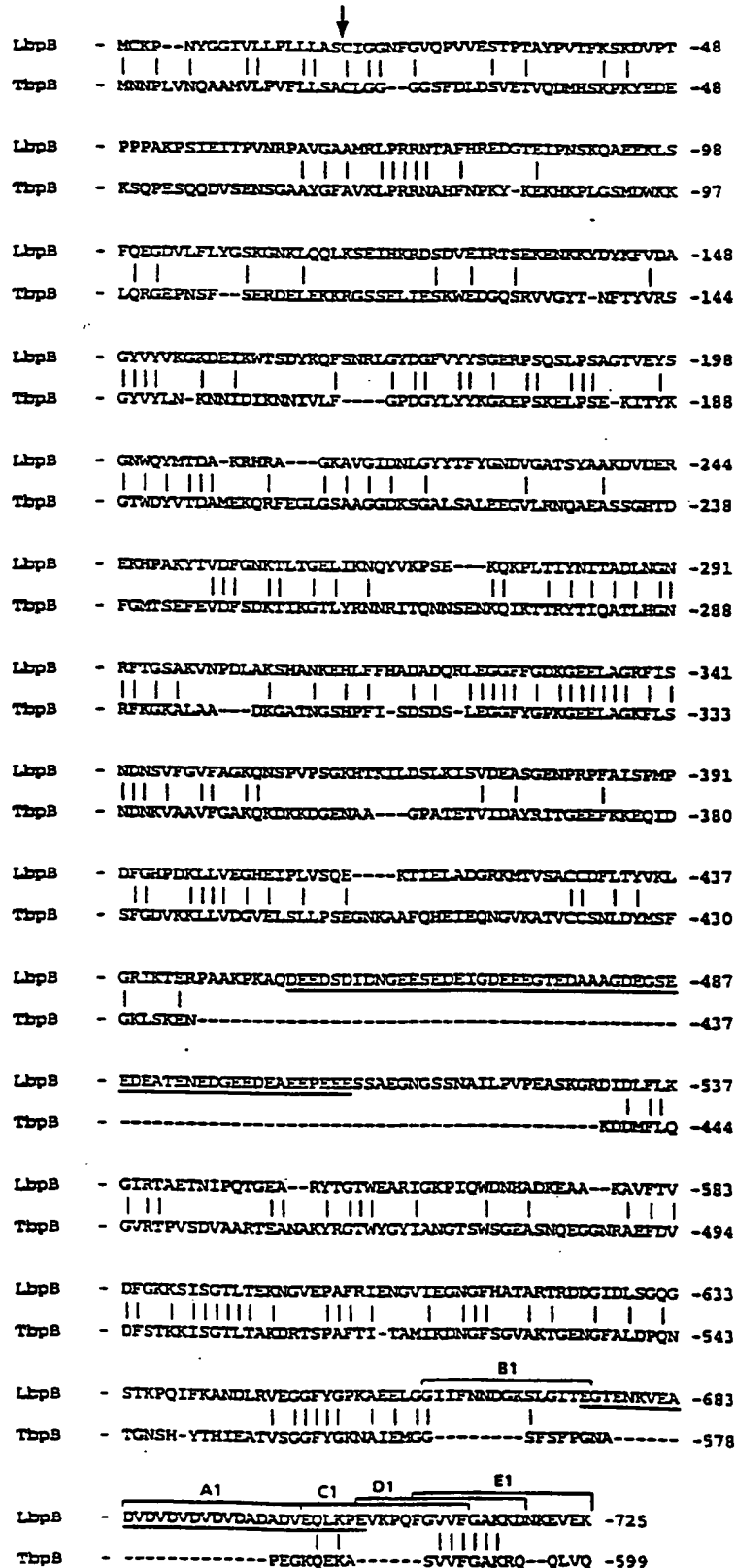


Fig.3



## FIGURE 4

-35 -10  
CGGGTTGATATTATCTGTACATATTAAATATAATGATAATTATTATTA  
ATCAAATAGGAGGAAAAGTAGGGATGTGTAAACCGAATTATGGCGGC

FIGURE 5

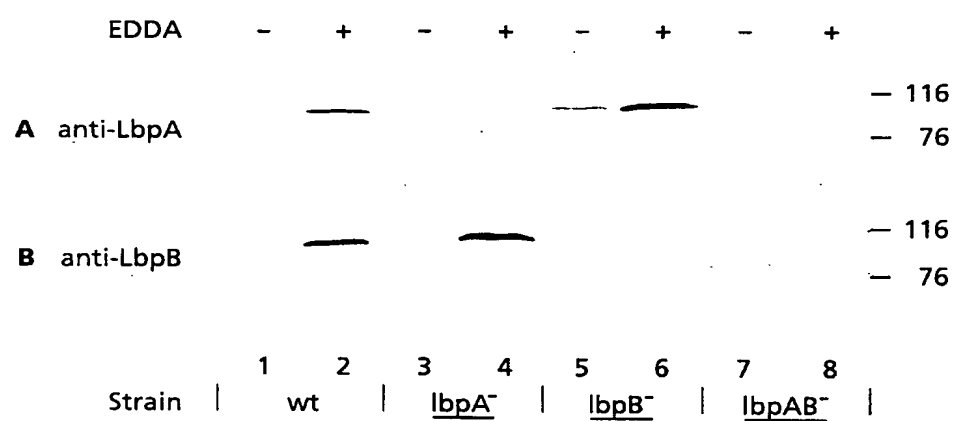


FIGURE 6

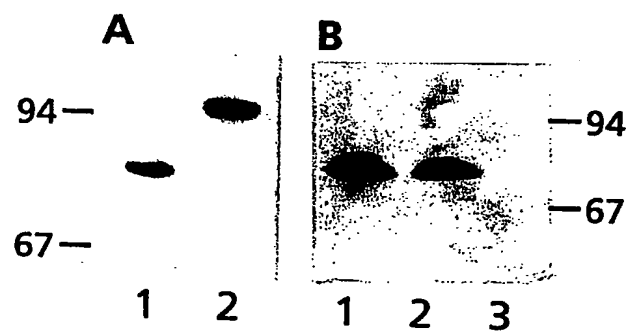


FIGURE 7

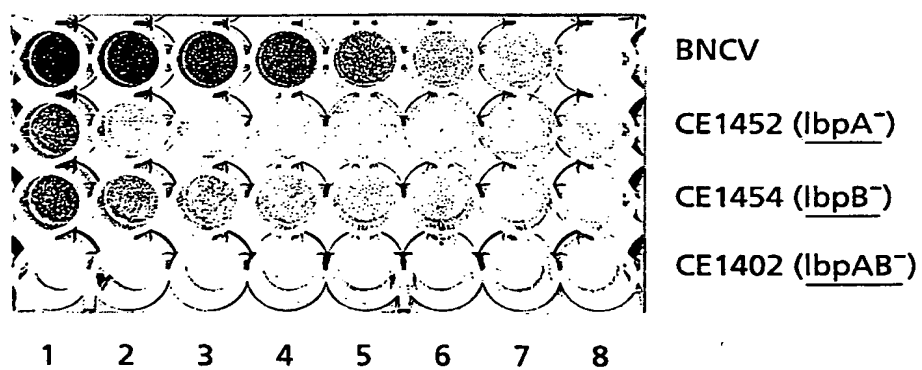


FIGURE 8

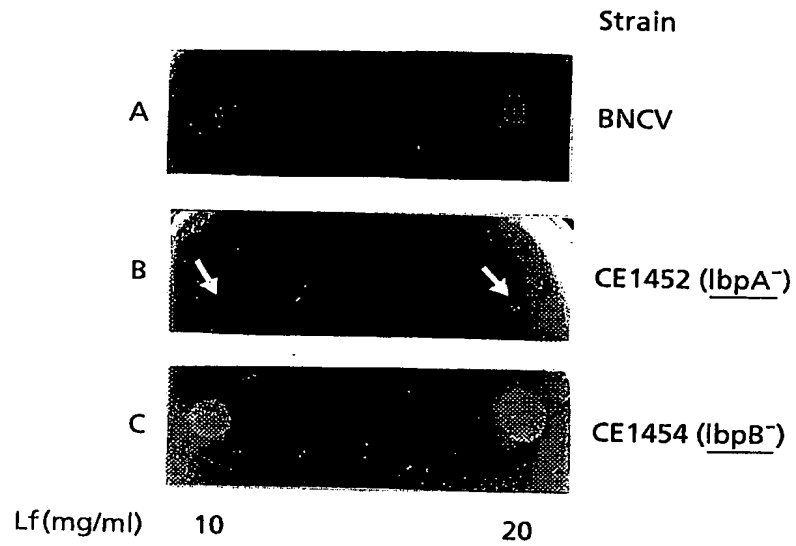




Figure 9

BNCV	MCKPNYGGIVLLPLLLASCIGGNFGVQPVVESTPTAYPVTFSK-----DVPTPP	50
H44/76	MCKPNYGGIVLLPLLLASCIGGNFGVQPVVESTPTAYPVTFSK-----DVPTPP	50
M990	MCKPNYGGIVLLPLLLASCIGGNFGVQPVVESTPTA-PTLSDSKSSNPADKPAPA	54
M981	MCKPNYGGIVLLPLLLASCIGGNFGVQPVVESTPTAYPVTFSK-----DVPTSP	50
881607	MCKPNYGGIVLLPLLLASCIGGNFGVQPVVESTPTAYPVTFSK-----DVPTSP	50
	***** * ** *	
BNCV	PAKPSIETTPVNR--PAVGAAMRLPRNTAFHREDGTEIPNSKQAEKLSFQEGD	103
H44/76	PAKPSIETTPVPSTGPAVGAAMRLRRIFATSDKVGNDFPNSKQAEKLSFKEGD	105
M990	PAEPSVEITPVKR--PAVGAAMRLPRRIATFDKNGNEIPNSKQAEKLSFKEGD	107
M981	PAGSSVETTPVNQ--PAVGAAMRLRRNTAFHREDGTAPDSKQAEKLSFKEGD	103
881607	PAGSSVETTPVNR--PAVGAAMRLRRRIATSDKDGNDFPNSKQAEKLSFKEED	103
	** * * * * * * * *	
BNCV	VLFLYGSKGNKLQQLKSEIHKRSDVEIRTSEKENKKYDYKFVDAGYVYVK-GKD	157
H44/76	VLFLYGSKKOKLQWLKDKIHQRNPVVEIRTSEKENKKYGYEFVDAGYVYTKNGTD	160
M990	ILFLDGTPEQADKLKEINGRHPNAPIYTSDLKDDAYQYKYVRAGYVYTRYGTD	162
M981	VLFLYGSKENKLQQLKSEIHKRNPEASITTSKENKKYNYRFVSAGYVFTKNGKD	158
881607	ILFLYGSKKQQRQQLKDKIRQPNPTASITTSKENKKYDYKFVDAGYVYTKDGKD	158
	*** * * * *	
BNCV	EIKWTSDYKQFSNRLGYDGFVYYSGERPSQSLPSAGTVEYSGNWQYMTDAKRHRA	212
H44/76	EIEWTSNRKQFSNRFYDGFVYYSGEHPSQSLPSAGTVQYSGNWQYMTDAIRHRT	215
M990	EIEQNSGGKRVTHRLGYDGFVYYSGERPSQSLPSAGTVEYSGNWQYMTDAKRHRA	217
M981	EIEKTSDEKQFSNRLGYDGFVYLGHEPSQSLPSAGTVKYSGNWQYMTDAIRHRR	213
881607	EIEWTSNYKQSTNRFGYDGFVYYSGEHPSQSLPSAGTVKYSGNWQYMTDAIRHRT	213
	** * * * * * * * *	
BNCV	GKAVG-IDNLGYTTFYGNVVGATSYAAKDVDEREKHPAKYTVDFGNKTLTGELIK	266
H44/76	GKAGDPSEDLGYLVYYGQNVGATSYAATADDREGKHPAEYTVDFDKKTLTGOLIK	270
M990	GQAVG-IDNLGYITFYGNVVGATSYAAKDVDEREKHPAKYTVDFDNKTMNGKLIK	271
M981	GKGVS-SVDLGYTTTYGNEIGAASYEARDADGREKHPAEYTVNFDKKNLEGLIK	267
881607	GKAGDPSEDLGYIVYYGQNVGATSYAATADDREGKHPAEYTVNFDQKTLNGKLIK	268
	* * * * * * * * *	
BNCV	NQYV--KPSEKQKPLTIYNITADLNGNRFTGSAKVNPD LAKSHANKEHLFFHADA	319
H44/76	NQYV-QKKTDEKKPLTIYDITATLDGNRFTGSAKVNTLKTSHADKEHLFFHTDA	324
M990	NQYVRNKKDEPKKPLTIYDITAKLDGNRFTGSAKVNPD LAKNLAGNERLFFHADA	326
M981	NQYV-QKRDDPKNPLTIYNITATLDGNRFTGSAKVSTEVKTQHADKEYLFFHTDA	321
881607	NQYV-QKRDDPKKPLTIYDITAKLDGNRFTGSAKVNTLKTSHADKEHLFFHTDA	322
	**** * * * * *	
BNCV	DQRLEGGFFGDKGEELAGRFISNDNSVFGVFAGKQ-----NSPVPSPGKHT	364
H44/76	DQRLEGGFFGDKGEELAGRFISNDNSVFGVFAGK-KTNASNAADTNPAMPSEKHT	378
M990	DQRLEGGFFGDNGEELAGRFISNDNSVFGVFAGK-KTETANAADTKPALPSGKHT	380
M981	DQRLEGGFFGDNGEELAGRFISNDNSVFGVFAGKQKTETANASDTNPALPSGKHT	376
881607	DQRLEGGFFGDKGEELAGRFISNDNSVFGVFAGKQKTETANASDTNPALPSGKHT	377
	***** * * * *	
BNCV	KILD SLKISVDEASGENPRPFAISMPDFGHPDKLLVEGREIPLVSQEKTIELAD	419
H44/76	KILD SLKISVDEATDKNARPFAISPLPDFGHPDKLLVEGREIPLVSQEKTIELAD	433
M990	KILD SLKISVDEATDGHARKFAISMPDFGHPDKLLVEGREIPLVNEEQIIKLAD	435
M981	KILD SLKISVDEATDDHARKFAISTMPDFGHPDKLLVEGREIPLVSQEKTIELAD	431
881607	KILD SLKISVDEASGENPRPFEVSTMPDFGHPDKLLVEGREIPLVNKEQTIDLAD	432
	***** * * * *	

Figure 9: (continued)

BNCV	GRKMTVSACCDFLTYVKLGRIKTERPAAKPKAQD----	EEDSDIDNGEES-EDEI	469	
H44/76	GRKMTVRACCDFLTYVKLGRIKTRPASKPKAEDKGKDEEDTGVGNDDEEGTEDEA		488	
M990	GRKMTVRACCDFLTYVKLGRIKTRPASKPKAEDKGDEEGAGVDNDEES-EDEA		489	
M981	GRKMTIRACCDFLTYVKLGRIKTRPAVKPKAQD----	EEDSDIDNGEES-EDEI	481	
881607	GRKMTVRACCDFLTYVKLGRIKTERPAVQPKAQDEEGDEEGVGVDNGKES-EDEI		486	
	*****			
BNCV	GDEEGETDEAAAGDEGSEDEAT---	ENEDGEDEA-----	EEPEEESSA	511
H44/76	AEGSEGGEDEIGDEGGGADEEAA---	ENEGGEDEA-----	EEPEEPEEESPA	533
M990	VEDEGGEEDETSEEDNGEEDDEEATAEEETEEVDEAE-----	EEVEEPEEKSPA		537
M981	SEDDNGEDEVTEEEAEETEEETDEDEEEPEETEETEETEETEETEETEEKSPT			536
881607	GDEESTGDEVVEDEDEDEDEEEI---	EEPEEEAE-----	EEPEEELPA	528
		* * *	* * *	
BNCV	E-GNGSSNAILPVPEASKGRDIDLFLKGIRTAETNIPQTGEARYTGTWEARIGKP			565
H44/76	EGGGGSGDILPAPEAPKGRDIDLFLKGIRTAEDIPQTGKARYTGTWEARISKP			588
M990	E-GNGGSGSILPALEASKGRDIDLFLKGIRTAETDIPQSGTAHYTGTWEARIGKP			591
M981	EEGNGGSGSILPTPEASKGRDIDLFLKGIRTAEDIPQIGKARYTGTWEARIGVP			591
881607	EEGNGGSGSILPTPEASKGRDIDLFLKGIRTAEDIPKNGTAHYTGTWEARIGVS			583
	* * * *	***	* * *	
BNCV	-----IQWDNHADKEAAKAVFTVDFGKKSISGTLTEKNGVEPAFRIEN			608
H44/76	-----IQWDNHADKKAAKAEFDVDFGEKSISGTLTEKNGVQPAFHIEEN			631
M990	-----IQWDNQADEKAAKAEFTVDFDKKSISGKLTEQNGVEPAFHIED			634
M981	DKKGQQLDGTTSIQKDSYA-NQAAKAEFDVDFGAKSLSGKLTEKNDTHPAFYIEK			645
881607	D-----SGTSIQKDSYA-NQGAKAEFTVDFEAKTVSGMLTEKNDTTPAFYIEK			630
		** * *	*** * * * *	* * * * *
BNCV	GVIEGNGFHATARTRDDGIDLSGQGSGTKPQIFKANDLRVEGGFYGPQAEELGGII			663
H44/76	GVIEGNGFHATARTRDNGINLSGNDSTNPPSFKANNLLVTGGFYGPQAEELGGTI			686
M990	GKIDGNGFHATARTRESGINLSGNGSTDPKTFQASNLRVEGGFYGPQAAELGGTI			689
M981	GVIDGNGFHALARTRENGVDLSGQGSGTNPQSFKASNLLVEGGFYGPQAAELGGNI			700
881607	GVIDGNGFHALAHTRENGIDLSGQGSGTNPKNFKADNLLVTGGFYGPQAAELGGNI			685
	* * *	*****		
BNCV	FNNDGKSLGITTEGTENKVEADVVDVDVDVDADADVE-QLKP-EVKPQFGVVFGA			716
H44/76	FNNDGKSLGITEDTENEAEAEVENEAGVG-----	E-QLKP-EAKPQFGVVFGA		732
M990	FNNDGKSLSITENIENEAEAEVEVEAEAEVEEADVKGQLEPDEVKHKFGVVFGA			744
M981	IDSDRK-----	IGVVFGA		713
881607	IDSDRK-----	FGAVFGA		698
	* *		* ****	
BNCV	KKDNKEVEK	725		
H44/76	KKDNKEVEK	741		
M990	KKDMQEVEK	753		
M981	KKDMQEVEK	722		
881607	KKDDKEATR	707		
	*** *			

Fig. 10

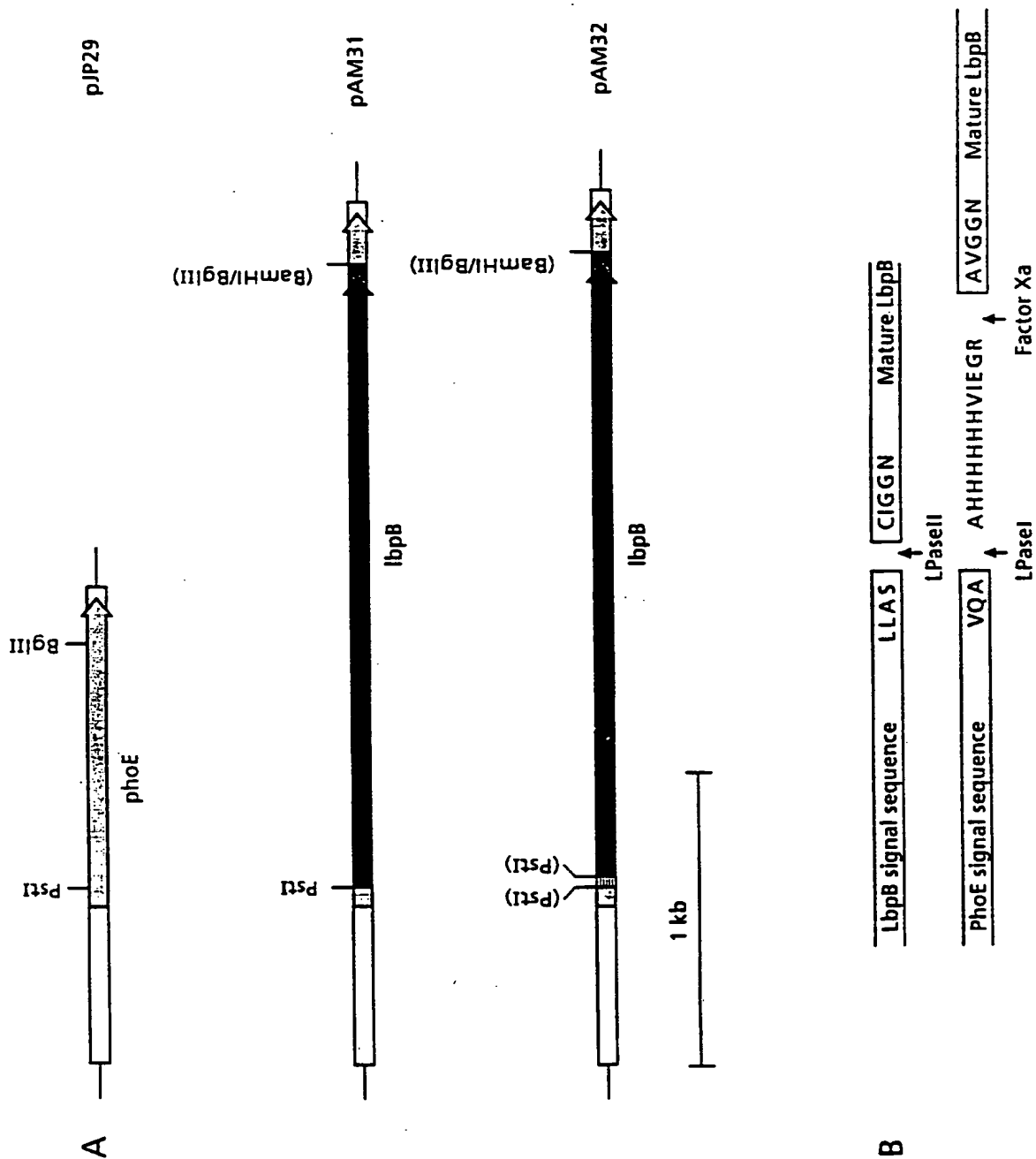


FIGURE 11

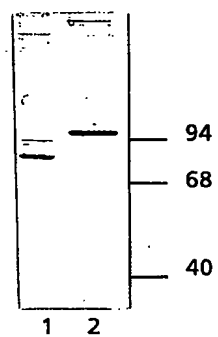


FIGURE 12

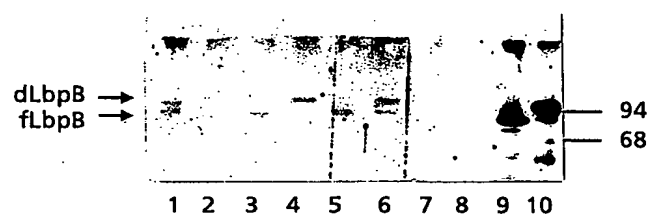


Fig. 13

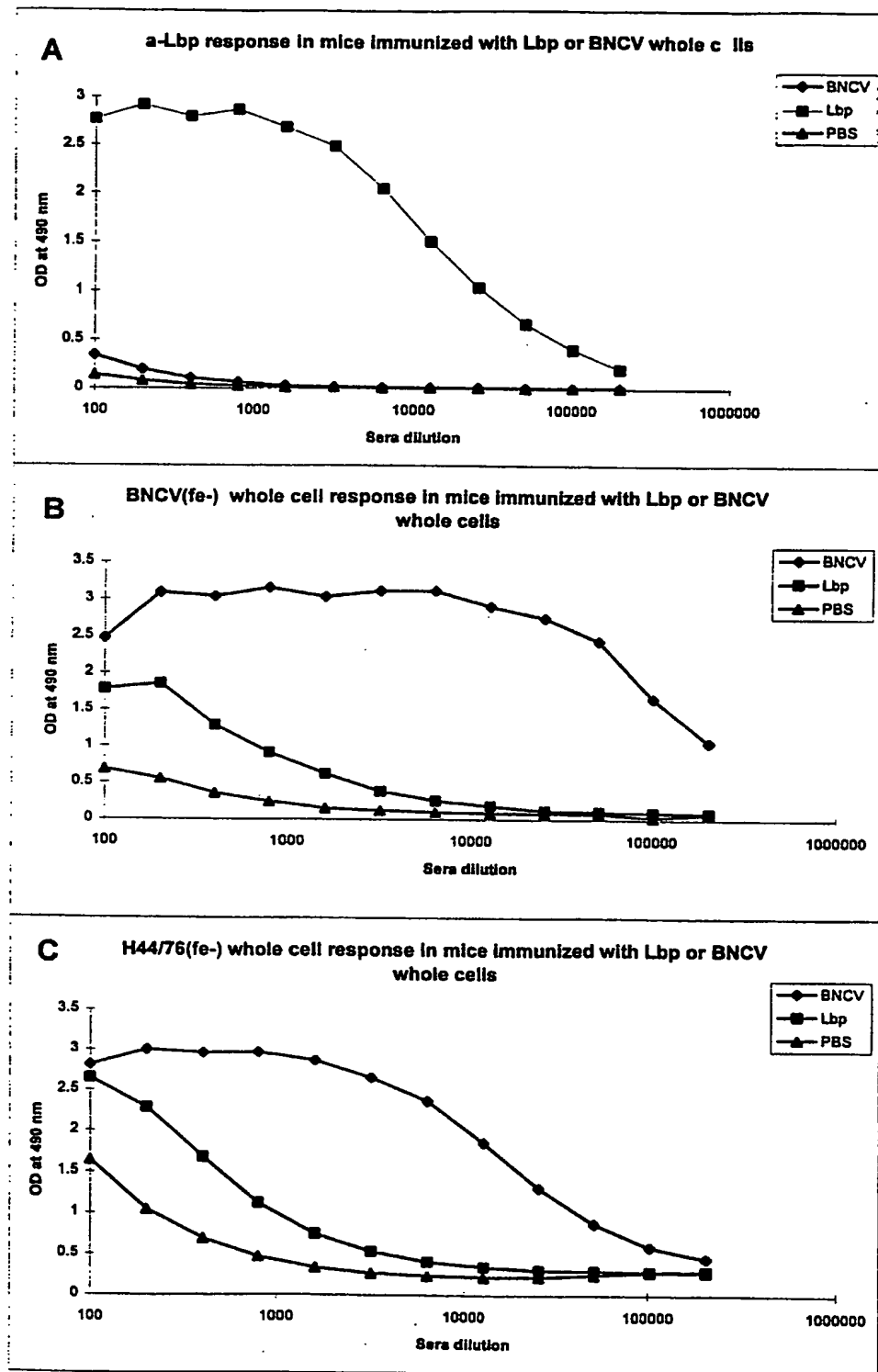


FIGURE 14

